

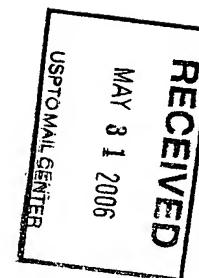
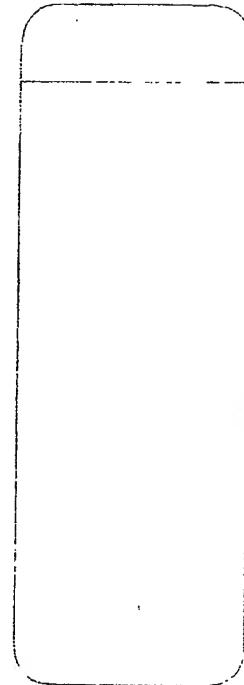


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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/091,373	03/04/2002	Hiroshi Ito	ARC920010125US1	7246
7590	05/01/2006		EXAMINER	
J. Elin Hartrum REED & ASSOCIATES Suite 210 800 Menlo Avenue Menlo Park, CA 94025			WALKE, AMANDA C	
			ART UNIT	PAPER NUMBER
			1752	
			DATE MAILED: 05/01/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/091,373	ITO, HIROSHI	
	Examiner	Art Unit	
	Amanda C. Walke	1752	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 17 April 2006.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-31 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-31 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ . |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ . | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| | 6) <input type="checkbox"/> Other: _____ . |

DETAILED ACTION

Response to Arguments

1. Applicant's arguments, filed 4/17/2006, with respect to the rejection(s) of claim(s) 1-31 under U.S.C. 103 have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection follows..

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Araki et al (6,908,724).

Araki et al disclose a fluorine-containing polymer for use as a chemically amplified photoresist. The polymer includes a variety of polymers and monomers, and may take the structure: M1-M2-M3-N, wherein M1 is of structure similar to the instant monomer II (see column 147-149), M2 is an alicyclic monomer, M3 is of structure similar to that of the instant monomer I (see column 158-159), and N is selected from monomers such as ethylene, vinyl ether, allyl, or the monomers described in columns 39-41 which are suitable to be combined with the novel fluorine-containing monomers (claim 16). The monomers described in columns 147-149 and 158-159 comprise groups falling within the scope of the instant claims 2-14. The compositions further comprises an acid generator (such as an onium salt as described in columns 62-93), and is a UV, specially VUV resist (157 nm; see abstract). Also, a solvent, an organic

base, and optionally a crosslinker should the resist be a negative resist. The resist is then employed in a conventional method of forming a resist pattern columns 94-96 and examples in columns 215-219).

Given the teachings of the references, it would have been obvious to one of ordinary skill in the art to prepare the material of Araki et al choosing to employ the M1-M2-M3-N polymer either alone, or in combination with an additional novel polymer taught by the reference, which comprises monomers meeting the structural limitations of the instant monomers I and II, with reasonable expectation of achieving a material having high etching resistance.

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Takechi et al (6,329,125), Hatakeyama et al (6,835,524), and Ito et al (6,548,219) are cited for their teachings of similar monomers.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Amanda C. Walke whose telephone number is 571-272-1337. The examiner can normally be reached on M-R 5:30-4.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cynthia Kelly can be reached on 571-272-1526. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Amanda C Walke
Amanda C Walke
Primary Examiner
Art Unit 1752

ACW
April 28, 2006

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

FEB 27 2006

Sheet

1

of

1

Complete if Known

Application Number	10/091,373
Filing Date	March 4, 2002
First Named Inventor	Hiroshi ITO
Art Unit	1752
Examiner Name	Amanda C. Walke
Attorney Docket Number	ARC920010125US1

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.	Document Number	Issue Date or Publication Date	Name of Patentee or Applicant of Cited Document	Class	Subclass	Filing Date if Appropriate

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.	Foreign Patent Document No.	Publication Date	Country	Class	Subclass	T
ACW	AV	JP 2001-154362	6/8/01	Japan			X
AW	AW	JP 2003-212915	7/30/03	Japan			X
AXW	AX	JP 2003-040926	2/13/03	Japan			X
ACW	AY	WO 02/069038	9/6/02	PCT			

OTHER DOCUMENTS — NONPATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), Title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T

Examiner Signature

Amanda C. Walke

Date Considered

April 27, 2006

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Notice of References Cited			Application/Control No.	Applicant(s)/Patent Under Reexamination	
			10/091,373	ITO, HIROSHI	
Examiner			Art Unit	1752	Page 1 of 1
Amanda C. Walke					

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-6,329,125	12-2001	Takechi et al.	430/326
*	B	US-6,835,524	12-2004	Hatakeyama et al.	430/270.1
*	C	US-6,548,219	04-2003	Ito et al.	430/270.1
*	D	US-6,908,724	06-2005	Araki et al.	430/270.1
.	E	US-			
.	F	US-			
.	G	US-			
.	H	US-			
.	I	US-			
.	J	US-			
.	K	US-			
.	L	US-			
.	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
.	N					
.	O					
.	P					
.	Q					
.	R					
.	S					
.	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
.	U	
.	V	
.	W	
.	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.